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इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2 (PART III—SECTION 2)

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस
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Calcutta, the 25th March 2000

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पेटेंट कार्यालय के कार्यालयों के पते एवं अधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ता में अवश्यक है तथा मुम्बई, दिल्ली एवं चैन्सी में इसके शास्त्र कार्यालय हैं, जिनके प्राधीनिक क्षेत्राधिकार जोन के बाहर पर निम्न रूप में प्रशिक्षित हैं :—

पेटेंट कार्यालय शास्त्र, टांडी इस्टर्न, तीसरा तल, लोअर पर्सेल (प.), मुम्बई-400 013.

गुजरात, महाराष्ट्र, मध्य प्रदेश तथा गोआ राज्य क्षेत्र एवं संघ शासित क्षेत्र, इसने तथा दीव एवं दादर और नगर हवेली।

तार पता - "पेटेंटफिस"

फोन : 482 5092 फैक्स : 022 4950 622

पेटेंट कार्यालय शास्त्र,
एकक सं. 401 से 405, तीसरा तल
नगरालिका बाजार भवन,
सरस्वती भाग, करोल बाग,
नई दिल्ली-110 005.

हरियाणा, हिमाचल प्रदेश, जम्मू
तथा कश्मीर, पंजाब, राजस्थान,
उत्तर प्रदेश तथा दिल्ली राज्य
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तार पता - "पेटेंटफिस"

फोन : 578 2532 फैक्स : 011-576 6204

पेटेंट कार्यालय शास्त्र,
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तीसरा तल, राजाजी भवन, बसन्त नगर,
चैन्सी-600090।

आनंद प्रदेश, कर्नाटक, केरल, तमिलनाड़ु
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संघ शासित क्षेत्र, लक्षद्वीप, मिनिकाय
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फोन : 490 1495 फैक्स : 044-4901492

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तार पता - "पेटेंट्स"

फोन : 247 4401 फैक्स : 033 247 3851

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 1999 अथवा पेटेंट (संशोधन) नियम, 1972 द्वारा व्योमित सभी जावेदन, सूचनाएं, विवरण या उन्द्र दस्तावेज या कोई फोस पेटेंट कार्यालय के केवल समुक्ति कार्यालय में ही जहाँ किये जायेंगे।

अल्प : शुल्कों की अदायगी या तो नकद की जाएगी अथवा जहाँ उपर्युक्त कार्यालय उपर्युक्त है, उस स्थान के अन्तर्भृत दौकान से नियंत्रक को भुगतान योग्य बैंक ड्रॉप्ट अथवा बैंक दूधारा जो शक्ती है।

ALTERATION OF DATE UNDER SECTION-16

183709 Ante-dated to 28th Mar. 1994.
(1482/Cal/99)

183710 Ante-dated to 28th Mar. 1994.
(1483/Cal/97)

183714 Ante-dated to 17th Sep. 1993.
(113/Bom/97)

183715 Ante-dated to 30th Nov. 1993.
(353/Bom/97)

183724 Ante-dated to 15th May 1997.
(2800/Mas/97)

183725 Ante-dated to 15th May 1997.
(Patent No. 2805/Mas/97)

183726 Ante-dated to 15th May 1997.
(Patent No. 2807/Mas/97)

183727 Ante-dated to 15th May 1997.
(Patent No. 2808/Mas/97)

183728 Ante-dated to 15th May 1997.
(Patent No. 2810/Mas/97)

183729 Ante-dated to 15th May 1997.
(Patent No. 2811/Mas/97)

183730 Ante-dated to 15th May 1997
(Patent No. 2813/Mas/97)

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स्वीकृत सम्पूर्ण विनियोग

एतद्वारा यह सूचना दी जाती है कि संबंध आवेदन में से किसी पर पेट्रोल अनुदान के विरोध करने के इच्छुक व्यक्ति, इसके नियम की विधि से चार (4) महीने या अधिक एंसी विधि से उक्त चार (4) महीने की अवधि की समाप्ति के पूर्व, पेट्रोल (संशोधन) नियम, 1999 के तहत विहित प्रूप 4 पर अगर आवंदत है, एक महीने की अवधि से अधिक न हो, के भीतर कभी भी विनियोग एकस्वरूप उपयुक्त कार्यालय में एंसी विरोध को सूचना विहित प्रूप 7 पर दे सकते हैं। विरोध संबंधी लिखित वक्तव्य दी प्रतियों में शास्त्रीय साथ, यदि कोई हो, उक्त सूचना के लागत मा पेट्रोल (संशोधन) नियम, 1999 द्वारा संशोधित नियम-36 के तहत यथाविहित उक्त सूचना के लिये से 60 दिन के अंतराल कर दिए जाने चाहिए।

प्रत्येक विनियोग के संबंध में नीचे दिये गयींकरण, प्रारंभी वर्णित तथा अन्तर्भूतीय वर्णित करने के लक्ष्य हैं।

विनियोग तथा चित्र आरेख, यदि कोई हो, की अंकित प्रतियों की वापर्ति पेट्रोल कार्यालय या उसके शास्त्र कार्यालयों से विनियोगित 30 रुपए प्रति कोंडा अदाएगो पर को जा सकती है।

एंसी परिस्थिति में जब विनियोग की अंकित प्रति उपजब्ध नहीं हो, विनियोग तथा चित्र आरेख, यदि कोई हो, की फाई प्रतियों की वापर्ति पेट्रोल कार्यालय या उसके शास्त्र कार्यालयों से विनियोगित शुल्क उक्त दस्तावेज के 10 रुपए प्रति पूर्ण अंक 30 रुपए की अदायगी पर को जा सकती है।

Cl. : 123

183701

Int. Cl.⁴ : C 05 G 3/00

"METHOD OF MANUFACTURING A CONTROLLED RELEASE WATER SOLUBLE FERTILIZER COMPOSITION."

Applicant : YANIRSH TECNOLOGIES LTD. OF 26 HAMELAHA STREET, HOF SHEMEN, 32235 HAIFA, ISRAEL.

Inventor : ITZHAK YANIV.

Application No. : 768/Cal/95; filed on 06-07-95.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

23 Claims

A method of manufacturing a controlled release water soluble fertilizer composition, said method comprising :

mixing, coating, or encapsulating and optionally with agglomeration, at least one water-soluble fertilizer, such as herein described, with at least one improved magnesite cement constituted by at least one magnesium compound selected from the group consisting of magnesium oxychloride and magnesium oxysulphate, and at least one organic compound selected from the group consisting of carboxylic acids, such as herein described, carboxylate salts thereof, and acid anhydrides thereof, and optionally at least one additive such as herein described, and at least one filler such as herein described; and also optionally adding at least one polymerization initiator, such as herein described, to polymerize, in situ, any said, at least one organic compound which is polymerizable.

(Compl. Specn. : 27 Pages;

Drgns. : Nil)

Cl. : 141 D

183702

Int. Cl.⁴ : B 01 D 21/01

"METHOD FOR SEPARATING MIXTURE OF FINELY DIVIDED MINERALS".

Applicant : ENGELHARD CORPORATION, 101 WOOD AVENUE, ISELIN, NEW JERSEY 08830, UNITED STATES OF AMERICA.

Inventors :

1. SANJAY BEHL
2. MITCHELL J. WILLIS
3. RAYMOND H. YOUNG

Application No. : 819/Cal/95; filed on 18-07-95.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

21 Claims

A method for the selective separation of finely divided mineral particles such as herein described in a mixture of mineral particles which comprises :

(a) forming said mixture into a dispersed aqueous pulp by addition of a dispersant such as herein described;

(b) adding to said dispersed aqueous pulp a known fatty acid and a source of polyvalent cations such as herein described, unless at least one of the minerals in the pulp provides a source polyvalent cations, without flocculating said pulp;

(c) without adding a frothing agent to said pulp incorporating a high molecular weight organic anionic polymer such as herein described, thereby forming flocs which settle as a dense lower layer;

(d) and separating said settled layer from the remainder of the pulp such as by decantation or other known methods.

(Compl. Specn. : 24 Pages;

Drgns. : Nil)

Cl. : 163 C

183703

Int. Cl.⁴ : F 16 K—31/00

"DEVICE FOR INFLUENCING THE PERIODIC STROKE MOVEMENT OF THE CLOSING ELEMENT OF A VALVE".

Applicant : HOERBIGER VENTILWERKE AKTIENGESELLSCHAFT, OF A-1110 VIENNA, BRAUNHUBER-GASSE 23, AUSTRIA.

Inventor : PETER STEINRUCK.

Application No. : 869/Cal/95; filed on 27-07-95.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

06 Claims

Device for influencing the periodic stroke movement of the closing element of a valve, in particular of the valve plate(s) of a valve of a piston compressor, with at least one control cylinder coupled with and working in the stroke direction on the closing element, which control cylinder can be periodically acted upon or released from pressure medium by at least one control element, characterised in that the control element is connected in a supply or discharge conduit of the pressure medium and contains a second

control element for variably accelerating or slowing down the pressure formation or release, thereby accordingly accelerating or slowing down the stroke movement of the closing element at least gradually.

Cl. : 116 B

183704

Int. Cl. : E 02 B—17/00

"A FIXED OFFSHORE PLATFORM STRUCTURE".

Applicant : McDERMOTT INTERNATIONAL, INC., OF 1450 POYDRAS STREET, P. O. BOX 60035, NEW ORLEANS, LA 70160, UNITED STATES OF AMERICA.

Inventors :

1. DENNIS EARL CALKINS
2. ROBIN MCCOY CONVERSE
3. JAMES ALLAN HANEY
4. CHARLES EDWARD KINELL
5. ROGER STEWART OSBORNE
6. RAYMOND JOSEPH SERPAS

Application No. : 988/Cal/95; filed on 22-08-95.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

03 Claims

A fixed offshore platform structure (10) having a support structure (12) attached to the seabed (14), a deck (16) supported above the water line (17) by the support structure, a conductor (18) that penetrates the seabed, and a plurality of concentric well casings (22, 28, 32) that extend into the drilled well inside the conductor and above the seabed, said platform using a well casing tieback arrangement comprising :

(a) the well casings (22, 28, 32) being grouted to the seabed (14), to each other and the conductor (18) up to a level immediately above the seabed;

(b) at least the inner-most well casing (28) extending above the level of grouting up to the offshore platform structure above the water line; and

(c) said inner-most well casing (28) being supported in tension by the offshore platform structure whereby lateral support of said inner-most well casing by the offshore platform structure between the above-water deck and the seabed is unnecessary.

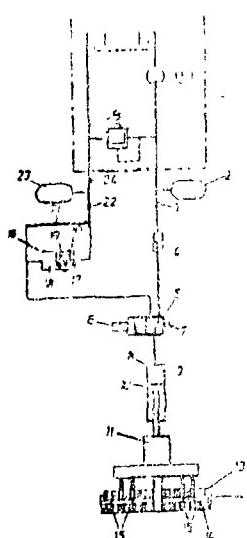


Fig 1

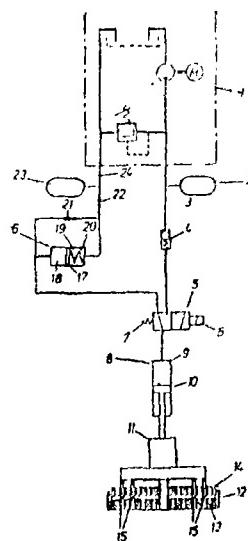


Fig 2

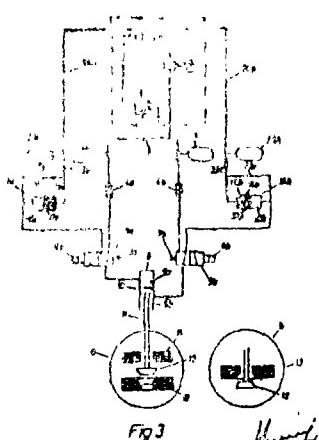


Fig 3

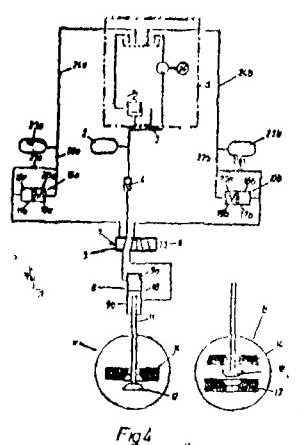
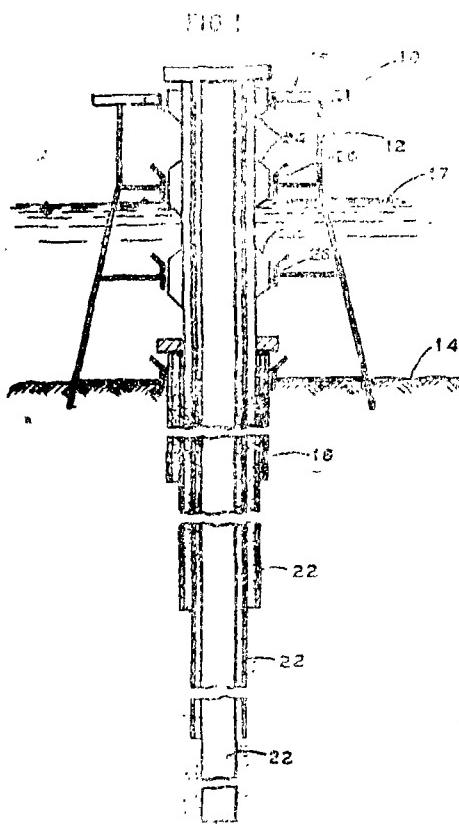


Fig 4



Cl. : 57 A
Int. Cl. : A 47 L 7/58

"HINGE FITTING FOR SEATS WITH ADJUSTABLE BACK REST ESPECIALLY HEAVY DUTY VEHICLE SEATS".

Applicant : KEIPER RECARO GMBH & CO. OF BUCHELSTR. 54—58, 42855 REMSCHEID, GERMANY.

Inventors :

1. GRIT SCHOLZ
2. DIRK ANGERMANN
3. DR. THORSTEN NOTTEBAUM

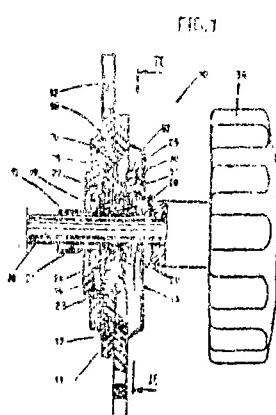
Application No. 995/Cal/95; filed on 23-08-95.

Appropriate Office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims

Hinge fitting for seats with adjustable back rest, especially for motor vehicle seats, at which a fixed hinge part (11) allotted to the seat component part and a swivelable hinge part (12) allotted to the back rest, are connected with each other through a swivel shaft (13) of a driver (20) where an adjusting and locking device developed as a gear unit, determining the position of the hinge parts to one another is provided, and the swivel shaft (13) has for supporting of a hinge part an eccentric zone (14), which is built from two wedge segments (24), one encompassing area-wise the swivel shaft (13) the wedge segments inclined against each other, an arm (22) of the driver (20) gripping between small faces of the wedge segments (24) and a tension spring (25) pressing out from one another the broad sides of the wedge segments (24) with the help of its spring legs, characterized in that,

the driver (20) has a resistive element (30) engaging at the tension spring (25), so that during rotary movement of the driver (20) by manual actuation a resistance is noticeable.



(Compl. Specn. : 27 Pages;

Drgns. : 07 Sheets)

Cl. : 108 B 2
Int. Cl. : C 21 D 6/01, C 22 B 5/02

"PROCESS FOR THE HEAT TREATMENT OF FINE-GRAINED IRON ORE AND FOR THE CONVERSION OF THE HEAT-TREATED IRON ORE TO METALLIC IRON".

Applicant : METALLGESELLSCHAFT AKTIENGESELLSCHAFT, OF REUTERWEG 14, D-60323 FRANKFURT AM MAIN, GERMANY.

Inventors :

- WOLFGANG BRENNER,
DR. MARTIN HIRSCH,
DR. ALPAYDIN SAATCI.

183705

Application No. : 1281/Cal/95 filed on 20th October, 1995.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A process for the heat treatment of fine-grained iron ore and for the conversion of the heat-treated iron ore to metallic iron, which

(a) the fine iron ore is blended with at least one binder to produce particles having a particle size of > 0.1 to 5 mm,

(b) the particles according to process stage (a) are dried,

(c) the particles dried according to process stage (b) are heat-treated at a temperature of 70 to 1100°C,

(d) in a first reduction stage the heat-treated particles are charged into the fluidised bed reactor of a circulating fluidised bed system, hot reduction gas is introduced as fluidising gas into the fluidised bed reactor, preliminary reduction of the iron oxides takes place, the suspension discharged from the fluidised bed reactor is largely freed of solids in the recycling cyclone of the circulating fluidised bed and the solids separated off are returned into the fluidised bed reactor such that the solids circulation per hour within the circulating fluidised bed is at least five times the weight of solids present in the fluidised bed reactor,

solids from the first reduction stage, in a second reduction stage, are passed into a conventional fluidised bed, hot reduction gas is passed into the conventional fluidised bed as fluidising gas the residual oxygen is broken down and < 50% of the iron content is converted into Fe₃C, the exhaust gas from the conventional fluidised bed is passed as secondary gas into the fluidised bed reactor of the circulating fluidised bed system and the product is withdrawn from the conventional fluidised bed, the exhaust gas from the recycling cyclone of the circulating fluidised bed system is cooled to below the dew-point and water is condensed out of the exhaust gas, a partial stream of the exhaust gas is withdrawn, the remaining partial stream, after strengthening by addition of reducing gas and heating as recycle gas is passed partly as fluidising gas into the fluidised bed reactor of the first reduction stage and partly into the fluidised bed of the second reduction stage.

(Compl. Specn. : 29 pages;

Drgns. : 3 sheets)

Cl. : 186 E

183707

Int. Cl. : H 04 B 15/00

DIGITAL VIDEO SIGNAL PROCESSING SYSTEM WITH A REJECTION FILTER.

Applicant : THOMSON MULTIMEDIA S.A., OF 9, PLACE DES VOSGES, LA DEFENSE 5, COURBEVOIE, FRANCE.

Inventors :

- CHRISTOPHER HUGH STROLLE,
STEVEN TODD JAFFE.

Application No. 1317/Cal/95; filed on 26-10-95.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A digital video signal processing system with a rejection filter comprising :

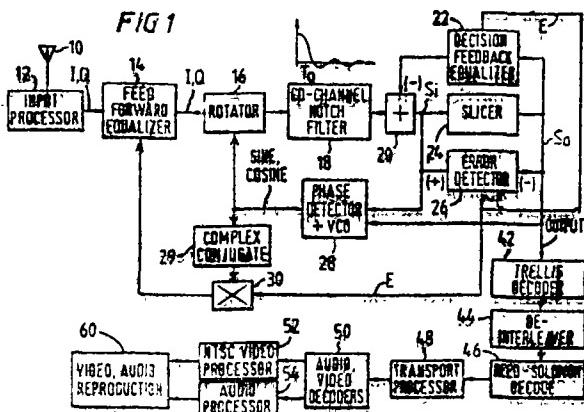
an input processor;

an input feedback equalizer responsive to signals from said input processor;

a carrier recovery network responsive to an output signal from said equalizer for providing a demodulated baseband video signal;

an output signal processor for processing said baseband video signal; and

said carrier recovery network comprises a filter for filtering baseband and near-baseband video signals, said filter exhibiting a response having significant amplitude attenuation at a prescribed frequency for attenuating narrowband interferer signal components subject to containing said received signal.



Compl. Specn. 13 Pages;

Drgns. 3 Sheets.

Cl. : 156 E

183708

Int. Cl. : F04 B 43/02, 9/04

A DOUBLE DIAPHRAGM PUMP.

Applicant : ABEL GMBH & CO., OF ABEL-TWIETE 1, D-21524 BUCHEN, GERMANY.

Inventor : VOLKER STAPELFELDT.

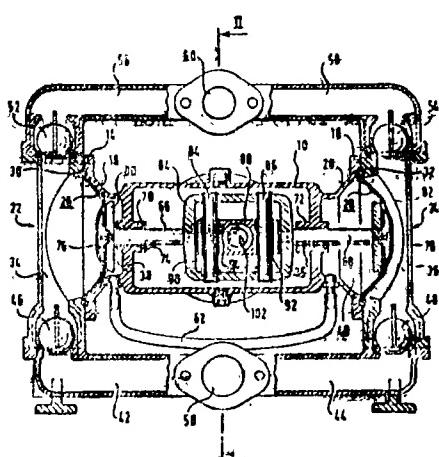
Application No. 1537/Cal/95 filed on 28th November, 1995.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

9 Claims

A double diaphragm pump having flexible diaphragms (26, 28) disposed in displacement spaces (34, 36) and connected and mechanically coupled to piston rods (66, 68), the displacement spaces being communicated via check valves to a suction manifold (50) on the one hand and to a pressure manifold (60) on the other hand, characterized in that each diaphragm (26, 28) is connected to a piston rod (66, 68); said piston rods extend coaxially and are mounted on opposite sides to a guide frame (64) having at least one linear guide (84, 86) for a slide block (88) which rotatably mounts a crank pin (102) of a crank-shaft (94); and said linear guide comprises round bars (84, 86) for engagement with corresponding guide bores (9, 92) provided in said slide block (88).

Fig. 1



Compl. Specn. 10 Pages;

Drgns. 2 Sheets.

Cl. : 34 A

183708

Int. Cl. : D 01 F 6/46

A PROCESS FOR PREPARING POLY (M-PHENYLENE ISOPHTHALAMIDE) FILAMENTS.

Applicant : E I DU PONT DE NEMOURS & CO., DELAWARE, UNITED STATES OF AMERICA.

Inventors :

RICHARD ARTHUR PEASE.
DAVID JOSEPH RODINI.

Application No. 1482/Cal/99 filed 11th August, 1997
(Divided out of No. 205/Cal/94; ante-dated to 28th March, 1994).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A process for preparing poly (m-phenylene isophthalamide) filaments comprising :

- reacting m-phenylene diamine with isophthaloyl chloride in an amide solvent of the kind such as herein described to produce poly (m-phenylene isophthalamide) in an hydrogen chloride containing amide solution;
- passing a major portion of the polymer solution through a bed of ion exchange resin in base form to remove hydrogen chloride and combining the hydrogen chloride free effluent of polymer in amide solvent with the remaining hydrogen chloride containing polymer solution;
- neutralizing the hydrogen chloride of the combined solutions by adding lime;
- removing amide solvent in a manner such as herein described from the effluent as necessary to attain suitable viscosity and concentration of the solution for spinning; and
- spinning the solution to form filaments.

Compl. Specn. 9 Pages;

Drgn. Nil.

Cl. : 43 A

183710

Int. Cl. : D 01 F 6/46

A PROCESS FOR PREPARING POLY (M-PHENYLENE ISOPHTHALAMIDE) FILAMENTS.

Applicant : E I DU PONT DE NEMOURS & CO., DELAWARE, UNITED STATES OF AMERICA.

Inventors :

RICHARD ARTHUR PEASE.
DAVID JOSEPH RODINI.

Application No. 1483/Cal/97 filed on 11th August, 1997
(Divided out of No. 205/Cal/94; ante-dated to 28th March, 1994).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

4 Claims

A process for preparing poly (m-phenylene isophthalamide) filaments comprising :

- reacting in an amide solvent such as herein described isophthaloyl chloride with a stoichiometric excess of m-phenylene diamine to produce an hydrogen chloride containing solution of low molecular weight polymer having an excess of amine ends;
- passing the polymer solution through a bed of ion exchange resin in base form to remove hydrogen chloride and recovering the hydrogen chloride-free effluent of polymer in amide solvent;

- (c) adding isophthaloyl chloride to the said effluent to form a polymer solution of high molecular weight and Hydrogen chloride as byproduct;
- (d) neutralizing the hydrogen chloride by addition of lime;
- (e) removing amide solvent in a manner such as herein described as necessary to obtain suitable viscosity and concentration of the solution for spinning; and
- (f) spinning the solution to form filaments.

Compl. Specn. 9 Pages;

Drgn. Nil.

Ind. Cl. : 172 D 9

183711

Int. Cl. : D 01 H, 13/14

A SLUBBING STOPPING DEVICE.

Applicant : CHEMNITZER SPINNERREIMASCHINENBAU GMBH OF ALTCHENITZER STR, 27 09120, CHEMNITZ, GERMANY.

Inventors :

WOLFGANG GUNTHER.

DR. ING REINHARD KONIG.

DR. ING JOHANNES BARTH.

Application No. 45/Bom/1996 filed on January 22, 1996.

Appropriate Office for Opposition Proceedings (Rule 4, of Patents Act, 1970), Patent Office Branch, Mumbai.

8 Claims

Slubbing stopping device with stable gripping surface movable in opposition to each other with means for interrupting slubbing transport to the drawing rollers comprising :

that the gripping device which forms the gripping point (20) containing a gripping surface (211) and a movable gripping edge (231), is located at a distance (X) of 35 mm to 65 mm upstream of the roll slit (411) of the draw-in rollers (41) and

that at least the gripping edge (231) can move away from the roll slit (411) of the draw-in rollers (41).

Compl. Specn. 19 Pages;

Drgns. 2 Sheets.

Ind. Cl. : 77 A+C Gr. [XI (I)]

1837112

Int. Cl. : A 23 D-5/00, C 11 C-3/00, 3/10

PROCESS FOR PREPARING AN EDIBLE VEGETABLE FAT COMPOSITION.

Applicants : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, MUMBAI-400 020, MAHARASHTRA, INDIA, AN INDIAN COMPANY, A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913.

Inventor : CORNELIS LAURENTIUS SASSEN.

Patent Application No. 73/Bom/97 filed on 06-02-97.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Mumbai-400 013.

14 Claims

1. Process for preparing an edible vegetable fat-composition that does not comprise hydrogenated fat having :

- a stearic acid residue content of 15—45%,
- a palmitic acid residue content of less than 15%,
- a content of unsaturated C18 fatty acid residues of 45—85%.

= the combined amount of fatty acid residues having a chain length of 16 or more carbon atoms being at least 95%.

= the ratio of (HOH+HHO) to (HLH+HHL) triglycerides being less than 1.0,

wherein on the 2-position of the triglycerides of the fat-composition 5—45% of the fatty acid residues are saturated and 95—55% are unsaturated which process comprises :

- (a) subjecting a non-hydrogenated vegetable fat having a stearic acid residue content of at least 15%, a palmitic acid residue content of less than 15% and a content of unsaturated C18 acid residues of at least 30% to ester interchange involving all three positions of the glycerides to obtain an ester-interchanged fat, and
- (b) optionally blending 10—100% of the ester-interchanged fat with up to 90% of vegetable non-hydrogenated fat such that the resulting fat-composition :
 - has a stearic acid residue content of 15—45%,
 - has a palmitic acid residue content of less than 15%,
 - has a content of unsaturated C18 acid residues of 45—85%,
 - comprises at least 95% fatty acid residues having a chainlength of 16 or more carbon atoms,
 - the ratio of (HOH+HHO) to (HLH+HHL) triglycerides being less than 1.0,
 - comprises on the 2-position of the glycerides 5—45% saturated fatty acid residues and 95—55% of unsaturated fatty acid residues.

Compl. Specn. 27 Pages;

Drgns. Nil.

Ind. Cl. : 55 E₄ Gr. [XIX]

183713

Int. Cl. : C 07 C-29/32, A 61 K-31/045

PROCESS FOR PREPARATION OF 1-(4-HYDROXY PHENYL)-2-[3-(SUBSTITUTED PHENOXY)-2-HYDROXY-1-PROPYLAMINO]-1-PROPANOL HYDROCHLORIDES AT NOVEL UTERINE RELAXANTS.

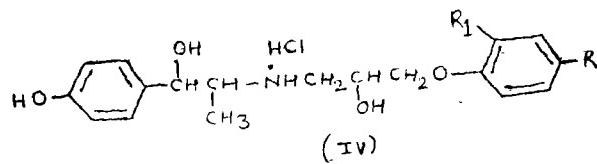
Applicants & Inventor : DR. VISWANATHAN LAKSHMANAN CHELAKARA, 1. LALIT, UTTAM CO-OP. HOU. SOCIETY, ST. ANTHONY ROAD, CEMBUR, MUMBAI-400071, MAHARASHTRA, INDIA AND MR. MANDAR MADHUKAR KODGULE, B8/1/5 DOODHSAGAR CO-OP. HOU. SOCIETY, CIBA ROAD, GOREGOAN (EAST), MUMBAI-400 065, MAHARASHTRA, INDIA. BOTH INDIAN NATIONALS.

Patent Application No. 82/Bom/97 filed on 11-02-97.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Mumbai-400 013.

1 Claim

A process for preparation of 1-(4-hydroxyphenyl)-2-[3-(substituted phenoxy)-2-hydroxy-1-propylamino]-1-propanol hydrochlorides, formula (iv)



wherein R is -CH₂CONH₂, -CH₂CH₂OCH₃, and -NHCOCH₃, and R₁ is -H and -COCH₃, comprising the following steps, step (a) refluxing 2-bromo-4'-benzyloxypropiophenone, formula (i) with 3-(Substituted phenoxy)-1-benzylamino-2-propanol, formula (ii) in presence of anhydrous potassium carbonate in dioxane to yield a product which was isolated as hydrochloride salt, formula (iii) by treating with dry HCl, step (b) hydrogenating the resultant product of step (a) in absolute ethanol at room temperature at 2 bar pressure with 10% palladium on carbon as catalyst to yield the titled compound.

Compl. Specn. 6 Pages;

Drgns. 1 Sheet.

Ind. Cl. : 136 E, 111

183714

Int. Cl. : B 65 B 29/04

AN APPARATUS FOR PRODUCING ASSEMBLY OF TAGS AND THREAD WITH A WEB.

Applicants : HINDUSTAN LEVER LIMITED, P.O. BOX 409, BOMBAY-400 001, MAHARASHTRA, INDIA.

Inventor : GEOFFERY WILLIAM VERNON.

Application : 113/Bom/1997 filed Feb, 24, 1997 Divisional to Application No. 297/Bom/93 filed Sep, 17, 1993. G. B. Priority dt 17-09-92.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Mumbai- 400 013,

10 Claims

1. Apparatus for producing an assembly a of tags, (T) and thread (L) with a web (W) in which the tags are located at spaced locations along the length of the web with a length of attaching thread between each successive pair of tags having a length greater than the spacing between the tags, the apparatus comprising means (2, 14) for forming the thread between the tags in to loops (L), means (22, 54) for doubling over the loops so formed, and means (22, 80, 82) for locating the doubled loops at least partially between the tags and the web to hold them releasably in said doubled form.

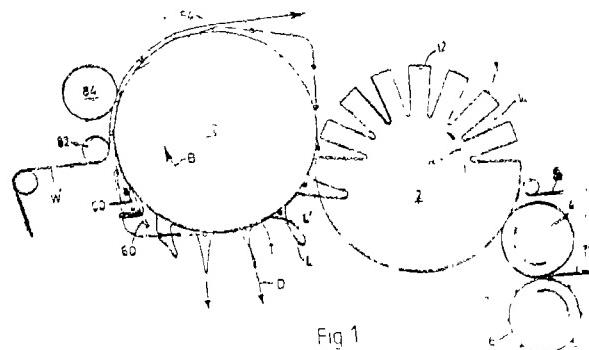


Fig 1

Compl. Specn. 17 Pages:

Drgns. 8 Sheets.

Ind. Cl. : 39 O Gr. (III)

183715

Int. Cl. : C 01 B-33/32

METHOD FOR THE PREPARATION OF AN ALKALI METAL SILICATE SOLUTION.

Applicants : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, MAHARASHTRA, INDIA. A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913.

Inventor : JOSEPH PIERRE H. THEUNISSEN.

Patent Application No. 353/Bom/97 filed on 12-06-97.

Divisional to Patent Application No. 406/Bom/93 dated 30-11-93.

G. B. (U. K.) Priority dated 27-11-92.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972) Patent Office Branch, Mumbai-400 013.

4 Claims

Method for the preparation of an alkali metal silicate solution by reacting a silica source with an alkali metal hydroxide under conditions of increased pressure and temperature in a hydrothermal process, characterized in that at least part of the silica source is comprised of cristobalite prepared by treating sand at elevated temperature in the presence of a catalyst, the sand having an overall iron and titanium content of less than 350 ppm and a titanium content of less than 200 ppm.

Compl. Specn. 17 Pages:

Drgns. Nil.

Ind. Cl. : 55A

183716

Int. Cl. : A 01 N 31/04; 31/08

A PROCESS FOR PRODUCING A SYNERGISTIC MICROBIOCIDAL NON ABRASIVE COMPOSITION.

Applicant : HINDUSTAN LEVER LTD., 165/166 BACKBAY RECLAMATION, MUMBAI-400 020, MAHARASHTRA, INDIA.

Inventors :

- (1) JULIE ROSALYN DAS &
- (2) KENNETH LESLIE RABONE.

Application No. 376/Bom/1997 filed on June 25, 1997.

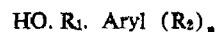
U. K. Convention Priority date July 3, 1996.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972). Patent Office Branch, Mumbai- 400 013.

9 Claims

A process for producing a synergistic microbiocidal, non-abrasive, composition of pH above 9 or at or below 5, comprises mixing :

- (a) in an amount of 0.15–15 wt% of anyone of optionally substituted aromatic alcohol and phenol, other than pheno per se, of the general formula :



wherein R₁ is absent or is C₁-C₆ alkyl, alkenyl or alkoxy, R₂ is absent or one or more ring substituents selected from C₁-C₆ alkyl, alkenyl or alkoxy, n is 0–5 provided that R₁ is not absent when n=0, and which has log (Poct) 3, and

- (b) in an amount of 0.1–30 wt% of a nonionic surfactant selected from ethoxylated alkanols having an HLB of 9–14 and amine oxide.

Compl. Specn. 24 Pages:

Drgns. Nil.

Ind. Cl. : 83 B1 Gr. [XIV(5)]

183717

Int. Cl. : A 23 G-9/04

A PROCESS FOR PRODUCING AN ICE CONFECTION.

Applicants : HINDUSTAN LEVER LIMITED, OF HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, MUMBAI-400020, MAHARASHTRA, INDIA. A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913.

Inventors :

- (1) DONALD REGINALD BIGGS.
- (2) DAVID ROBERT GRAHAM COX.
- (3) SUSAN ELAINE JONES.
- (4) PAUL HARVEY RICHARDSON.

Patent Application No. 433/Bom/97 filed on 21-07-97.

GB. UK Priority of dated 08-01-97.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Mumbai-400 013.

11 Claims

1. A process for producing an ice confection comprising a mass of milk containing ice confection and a discrete element of water ice, wherein

- (i) a mass of milk containing ice confection and a water ice solution having a rheometry value of more than about 1.0 are individually prepared;
- (ii) the mass of milk containing ice confection is contacted with the water ice solution to cause the water ice solution to adhere to the mass of milk containing ice confection; and
- (iii) the adhering water ice solution is rapidly cooled to 15°C or below.

(Compl. Specn. 18 Pages;

Drgn. Nil)

Ind. Cl. : 77 B 2 [XI(I)]

183718

Int. Cl. : C 11 C, 3/02.

PROCESS FOR OBTAINING DRYZANOL.

Applicants : HINDUSTAN LEVER LTD., A COMPANY INCORPORATED UNDER THE INDIAN COMPANIES ACT, 1913 OF HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-400 020, MAHARASHTRA, INDIA.

Inventors :

1. MANIX-VAN AMERONGEN,
2. COR HOFMAN,
3. ARLEND ZWANENBURG.

Application No. 435/Bom/97 dated 21-7-97.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Mumbai-400 013.

3 Claims

1. Process for obtaining of an oryzanol concentrate from an oryzanol containing fatty substance which preferably is at least one of rice bran oil, a corn bran oil, or a mixture thereof, the Oryzanol being a composition as defined in the specification, the steps of :

- (a) at least one of the process steps of A1

A1 removal of phospholipids to a level below 35 ppm by using a superdegumming process and free fatty acids removal, preferably by stripping;

- (b) A alkali neutralization of the obtained product preferably by using sodium hydroxide;
- (c) separation into an aqueous and an oil phase using at least one of phosphoric acid, citric acid, sulphuric acid, hydrochloric acid or mixtures thereof, and removal of the obtained oil phase.

(d) washing the obtained product prior to step B or after Step C and treating the oryzanol concentrate product resulting from the process of steps A—D by;

(e) separation of an aqueous and oil phase by the addition of an acid to a pH <5, preferably to a pH <2 and subsequent removal of any non-fatty substances such as water, alkali hydroxide and acid used from the oil phase.

(Compl. Specn. 21 Pages;

Drgn. Nil)

Ind. Cl. : 55 D 1

183719

Int. Cl. : A 23 B 9/00.

A NOVEL METHOD FOR THE STERILIZATION OF NEEM SEEDS FOR BETTER SHELF LIFE AND FUNGS PROOF.

Applicants : M/S. SYNIT DRUGS PRIVATE LIMITED, MOHATTA BHAVAN, OFF HAINES ROAD, WORLI, MUMBAI-400 018, MAHARASHTRA (INDIA).

Inventors :

1. SHIRISH BHAGVANLAL MODY.
2. BHARAT PRAVINCHANDRA MEHTA.
3. PRANABH DINESH MODY.

Application No. 463/Bom/1997 filed on August 1, 1997.

Appropriate Office for Opposition Proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, Mumbai-400 013.

1 Claim

A novel method for the sterilization of neem seeds for better shelf life and fungus proof comprising of the following steps :

- (i) Labelling each neem tree in the area;
- (ii) Placing a fine mesh net below the neem tree to collect the fruit in such a way that the net does not come in contact with the ground;
- (iii) Waiting until the tree formed ripening fruits;
- (iv) Brushing the ground under the tree until totally free from old fruits, leaving the tree for few days to drop freshly ripened fruits which is then collected in 100 to 1000 nos. freshly fallen fruits from each tree keep fruits fallen from each tree separate.
- (v) Storing in a cotton bag for at least 8 hours below 4°C;
- (vi) Obtaining seeds free from fruits juicy flesh is rubbed off, dried with cotton cloth or tissue paper, dried in sunlight and are washed with 2—8% NaHCO₃ solution in order to sterilize the seeds, prevent it from fungi formation;
- (vii) Storing in a well ventilated placed at a temperature ranging from 15—35°C away from sunlight;
- (viii) Storing the seeds of step (vii) on a hard surface and stirred occasionally to dissipate the heat produced by respiration of the seeds.

(Compl. Specn. 6 Pages;

Drgn. Nil.)

Ind. Cl. : 123 [I(4)]

183720

Int. Cl. : A 01 C 15/00.

A PROCESS FOR THE PREPARATION OF SYNERGISTIC FERTILIZER COMPOSITION FROM AGRICULTURE WASTE.

Applicants : M/S. SYNIT DRUGS PRIVATE LIMITED, MOHATTA BHAVAN, OFF HAINES ROAD, WORLI, MUMBAI-400 018, MAHARASHTRA, INDIA.

Inventors :

1. SHRI SHIRISH BHAGWANLAL MODY.
2. SHRI BHARAT PRAVINCHANDRA MEHTA.
3. SHRI PRANABH DINESH MODY.

Application No. 467/Bom/97 filed on 1-8-97.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-400 013.

1 Claim

I. A process for the preparation of synergistic fertilizer composition from agriculture waste such as cakes of Neem, Mahuava, castor, undi, karani, refuse tea, rice husk and Bagasse ash comprising the following steps :

- (i) mixing dried cakes of Neem, Mahuava, Castor, undi, karani, refuse tea, 200 gms each;
- (ii) soaking the mixture of step (1) in water;
- (iii) evaporating the water of the mixture of step (2);
- (iv) grinding the mixture of step (3) in powder form;
- (v) adding bagasse ash and rice husk powder 1000 gms each in the mixture of step (4);
- (vi) grinding the mixture of step (5) in a jet mixture into uniform powder to obtain synergistic fertilizer composition which ensures that the essential nutrient supply reaches to the plants from soil and improves general well being of the soil without depleting the carbon content thereby preventing soil erosion.

(Comp. Specn. 6 Pages;

Drgns. Nil)

183722

Ind. Cl. : 56 D & 55 D 1

Int. Cl. : B 01 D 11/02
A 01 N 27/00.

PROCESS FOR PREPARING UPGRADED AZADIRACHTIN CONTAINING NEEM PRODUCTS.

Applicant : E.I.D. PARRY (INDIA) LTD., AN INDIAN COMPANY, HAVING ITS REGISTERED OFFICE AT 'DARE HOUSE', 234, N.S.C. BOSE ROAD, CHENNAI-600 001, TAMIL NADU INDIA.

Inventors :

1. MAYARA EASWARAN NARAYANAN NAMBU-DIRY.
2. SREENIVASA RAO DAMARLA.

Application No. 1855/Mas/97 filed on 22nd August 1997.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

6 Claims

A process for preparing a neem product containing at least 30% by wt of azadirachtin and degrading to an extent of not more than 10% by wt of azadirachtin after 28 days of 54°C from an—azadirachtin-containing neem extract in solid or semisolid form, comprising the steps of dissolving the said extract in a polar organic solvent, treating the said polar solution with a non—polar solvent slowly and under agitation so as to allow precipitation of the substance containing azadirachtin, separating the precipitate and drying the same in any conventional manner.

(Compt. Specn. 16 Pages;

Drgns. Nil Sheet)

183723

Ind. Cl. : 83 B3
Int. Cl. : A 23 C 9/156, A 23 C 3/02, &
A 23 C 1/221.

A PROCESS FOR PREPARING A MILK BASED FLAVOURANT COMPOSITION FOR BEVERAGES.

Applicant : SOCIETE DES PRODUITS NESTLE S. A., A SWISS BODY CORPORATE, P.O. BOX 353, CH-1800 VEVEY, SWITZERLAND.

Inventors :

1. MEISTER NIKLAUS
2. VIKAS MARTIN.

Application No. 2087/Mas/1997 filed on 23rd September 1997.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

10 Claims

A process for preparing a milk based flavourant composition for beverages comprising the steps of :

mixing milk fat with a skimmed milk and homogenizing the same to obtain a milk base;

subjecting said milk base to evaporation to concentrate said milk base;

homogenizing said concentrated milk base to reduce fat globule size;

cooling said homogenized concentrated milk base to a temperature of less than 10°C and

adding (i) a stabilizing salt selected from the group consisting of phosphate and citrate salts (ii) sucrose in a dry form and (iii) a known flavouring agent thereto to obtain a flavourant composition wherein, by weight based upon flavourant composition weight, the stabilizing salt is added in an amount of from 0.05% to 0.35% and wherein, by weight based upon flavourant composition dry matter, the sucrose is added in an amount of 5% to 40%;

Ind. Cl. : 83 B 5

183721

Int. Cl. : A 23 L 3/34.

A PROCESS OF REMOVING THE PEELS OF PALMYRA FRUIT WHOLE KERNELS BY THE USE OF DILUTE HYDROCHLORIC ACID AS A CHEMICAL PEELING AGENT.

Applicant : PANGANAMAMULA VENKATA SURYA PRAKASA RAO, TECHNICAL ADVISER, USHODAYA ENTERPRISES LTD., PRIYA FOODS DIVISION, BEENADU COMPLEX, SOMAJIGUDA, HYDERABAD-500 082, A. P., INDIA.

Inventor I. PANGANAMAMULA VENKATA SURYA PRAKASA RAO.

Application No. 721/Mas/97 filed on 7th April, 1997.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

8 Claims

A process wherein the peels of whole kernels of palmyrah fruit are loosely separated from the kernels as a result of immersing the unpeeled whole kernels in a dilute commercial — mineral acid of optimized concentration at ambient temperatures for a period sufficient to bring about separation and adequate loosening of the peels from the kernels, followed by repeatedly washing the kernels in running cold water until they are free from all traces of adhering peel and hydrochloric acid, and then immersing the kernels so washed in a weak alkaline solution to neutralise the residuary mineral acid left in the kernels, if any, and to impart also firmness to the kernels, followed again by repeatedly washing the kernels in running cold water until they are free from all traces of added chemicals.

(Comp. Specn. 05 Pages;

Drgns. Nil Sheet)

heating said flavourant composition to a temperature of from 50°C to 90°C subjecting the same to Ultra High Temperature heating to sterilize the same;

aseptically homogenizing said sterilized composition and optionally aseptically filling a package with said homogenized sterilized composition.

(Compl. Specn. 14 Pages:

Drgs. Nil Sheet)

Ind. Cl. : 32 F2b

183724

Int. Cl. : C 07 D 417/00

PROCESS FOR THE PREPARATION OF NOVEL POLYMORPHIC FORM-5 OF TROGLITAZONE HAVING ENHANCED ANTI-DIABETIC ACTIVITY.

Applicant : DR. REDDY'S RESEARCH FOUNDATION, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 7-1-27, AMEERPET, HYDERABAD-500 016, A.P., INDIA.

Inventors :

1. KRISHNAMURTHI VYAS.
2. CHEBIYYAM PRABHAKAR.
3. DHARMARAJA SREENIVAS RAO.
4. MAMILLAPALLI RAMABHADRA SARMA.
5. GADDAM OM REDDY.

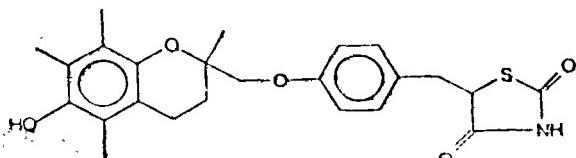
Application No. 2800/Mas/97 filed on 9th December, 1997.

Divisional to Patent Application No. 276/Mas/96, Ante-dated to 15th May 1997.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Mumbai-400 014.

6 Claims

1. The process for the preparation of novel polymorphic Form 5 of Troglitazone having the formula I,



(I)

which is characterized by the data described hereunder :

Differential Scanning Calorimeter : Endotherm at 180.5°C (onset at 157.9°C)

X-ray powder diffraction (20) : 5.60, 11.06, 11.62, 15.48, 15.78, 16.48, 18.12, 18.34, 21.06, 21.90, 23.34, 23.58

Infrared absorption bands (cm⁻¹) : 3462(w), 3211(w), 3060(w), 2921(w), 1756(m), 1685(s), 1610(w), 1583(w), 1513(s), 1454(m), 1419(w), 1381(w), 1303(m), 1244(s), 1168(m), 1117(w), 1085(w), 1047(m), 929(w), 861(w), 825(w), 718(w), 665(w), 564(w), 509(w)

w=weak, m=medium, s=strong

which comprises

- (i) synthesizing Troglitazone, in crude form employing known methods.

(ii) subjecting the crude Troglitazone obtained in step (i) to column chromatography to obtain a partially purified Troglitazone having HPLC purity in the range of 60-70%,

(iii) dissolving the partially purified Troglitazone obtained in step (ii) in an organic polar and/or medium polar solvent and heating the resulting solution to reflux with a non-polar solvent,

(iv) cooling the resulting solution slowly to room temperature at a rate of 0.1 to 1 °C/minute, over a period in the range of 24-72h to produce the polymorphic Form-1 of Troglitazone, which is characterized by the data described hereunder :

Differential Scanning Calorimeter : Endotherm at 179.3°C, (onset at 169.3°C)

X-ray powder diffraction (20) : 5.56, 11.18, 11.66, 15.72, 16.62, 17.62, 18.24, 19.70, 21.20, 21.42, 23.40, 23.70

Infrared absorption bands (cm⁻¹) : 3442(w), 3218(w), 2921(w), 1748(m), 1686(s), 1610(w), 1582(w), 1513(s), 1454(w), 1420(w), 1382(w), 1302(m), 1244(s), 1169(s), 1118(w), 1086(w), 1048(m), 931(w), 863(w), 827(w), 798(w), 720(w), 509(w)

w=weak, m=medium, s=strong

(v) filtering the product and melting it by heating,

(vi) cooling the melt to ambient temperature at a rate in the range of 0.1 to 1°C/minute over a period of 1-4 h to give a glossy transparent material,

(vii) grinding the transparent flake to a fine powder to yield the polymorphic Form-4 of Troglitazone, which is characterized by the following data :

Differential Scanning Calorimeter : Endotherm at 56.6°C, exotherm at 110.4°C (onset at 93.6°C) and endotherm 177.1°C (onset at 153.7°C)

X-ray powder diffraction (20) : No diffraction peaks due to its amorphous nature Infrared absorption bands (cm⁻¹) : 3473(w), 3204(w), 3060(w), 2924(w), 1754(m), 1696(s), 1610(w), 1583(w), 1512(s), 1457(m), 1420(w), 1378(w), 1333(m), 1301(m), 1243(s), 1162(m), 1115(w), 1085(w), 1041(w), 928(w), 849(w), 827(w), 715(w), 664(w), 512(w).

w=weak, m=medium, s=strong, and

(viii) subjecting the polymorphic Form-4 of Troglitazone so obtained in step (vii) to isothermal heating in the range of 60 to 170°C preferably at 130°C, for a period in the range of 5 min. to 4 h; cooling to ambient temperature slowly at a rate of 0.1 to 1°C/minute, over a period in the range of 1-4 h, followed by grinding the flake to a fine powder to yield the polymorphic Form-5 of Troglitazone.

(Compl. Specn. 18 Pages;

Drgs. 26 Sheets)

Ind. Cl. : 32 F2b

183725

Int. Cl. : C 07 D 417/00.

PROCESS FOR THE PREPARATION OF NOVEL POLYMORPHIC FORM-4 OF TROGLITAZONE HAVING ENHANCED ANTI-DIABETIC ACTIVITY.

Applicant : DR. REDDY'S RESEARCH FOUNDATION, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 7-1-27, AMEERPET, HYDERABAD-500 016, A. P., INDIA.

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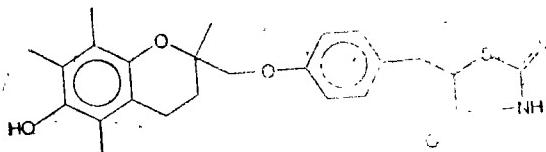
Application No. 2805/Mas/97 filed on 9th December 1997.

Divisional to Patent Application No. 276/Mas/96, Antedated to 15th May 1997.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

3 Claims

1. The process for the preparation of novel polymorphic Form-4 of Troglitazone having the formula I,



(I)

which is characterized by the following data :

Differential Scanning Calorimeter : Endotherm at 56.6°C exotherm at 110.4°C (onset at 93.6°C) and endotherm 177.1°C (onset at 153.7°C)

X-ray powder diffraction (2θ) : No diffraction peaks due to its amorphous nature Infrared absorption bands (cm^{-1}) :

3473(w), 3204(w), 3060(w), 2924(w), 1754(m), 1696(s), 1610(w), 1583(w), 1512(s), 1457(m), 1420(w), 1378(w), 1333(m), 1301(m), 1243(s), 1162(m), 1115(w), 1085(w), 1041(w), 928(w), 849(w), 827(w), 715(w), 664(w), 512(w)
w=weak, m=medium, s=strong

which comprises

(i) melting the polymorphic Form-5 of Troglitazone prepared by any of the process described in our copending applications numbered 2800/MAS/97, 2811/MAS/97, 2815/MAS/97 and 2816/MAS/97, having the following characteristics

Differential Scanning Calorimeter : Endotherm at 180.5°C (onset at 157.9°C),

X-ray powder diffraction (2θ) : 5.60, 11.06, 11.62, 15.48, 15.78, 16.48, 18.12, 18.34, 21.06, 21.90, 23.34, 23.58,

Infrared absorption bands (cm^{-1}) : 3462(w), 3211(w), 3060(w), 2921(w), 1756(m), 1685(s), 1610(w), 1583(w), 1513(s), 1654(m), 1419(w), 1381(w), 1303(m), 1244(s), 1168(m), 1117(w), 1085(w), 1047(m), 929(w), 861(w), 825(w), 718(w), 665(w), 564(w), 509(w),
w=weak, m=medium, s=strong, by heating,

(ii) cooling the melt to ambient temperature slowly at a rate of 0.1 to 1°C/minute, over a period in the range of 1.4 h to give a glossy transparent material and

(iii) grinding the transparent flake to a fine powder to yield the polymorphic Form-4 of Troglitazone.

Reference : 1. JP 60-051/892) US 5248699.

(Compl. Specn. 15 Pages;

Drgs. 24 Sheets)

Ind. Cl. : 32-F-6

183726

Int. Cl. : C 07 D 417/00
C 07 D 272/24.

PROCESS FOR THE PREPARATION OF NOVEL POLYMORPHIC FORM-4 OF TROGLITAZONE HAVING ENHANCED ANTI-DIABETIC ACTIVITY.

Applicant : DR. REDDY'S RESEARCH FOUNDATION, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 7-1-27, AMEERPET, HYDERABAD-500 01, ANDHRA PRADESH, INDIA.

Inventors :

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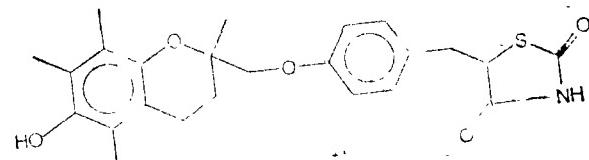
Application No. 2807/Mas/97 dated December 9, 1997.

Divisional to Patent Application No. 276/Mas/96; Ante dated to May 15, 1997.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

6 Claims

The process for the preparation of novel polymorphic Form-4 of Troglitazone having the formula I,



(II)

which is characterized by the data described hereunder :

Differential Scanning Calorimeter : Endotherm at 56.6°C, exotherm at 110.4°C (onset at 93.6°C) and endotherm 177.1°C (onset at 153.7°C)

X-ray powder diffraction (2θ) : peaks due to its amorphous nature

Infrared absorption bands (cm^{-1}) : 3473(w), 3204(w), 3060(w), 2924(w), 1754(m), 1696(s), 1610(w), 1583(w), 1512(s), 1457(m), 1420(w), 1378(w), 1333(m), 1301(m), 1243(s), 1162(m), 1115(w), 1085(w), 1041(w), 928(w), 849(w), 827(w), 715(w), 664(w), 512(w)

w=weak, m=medium, s=strong

which comprises

- (i) synthesizing Troglitazone in crude form employing known methods.
- (ii) subjecting the crude Troglitazone obtained in step (i) to column chromatography to obtain a partially purified Troglitazone having HPLC purity in the range of 60—7%
- (iii) dissolving the partially purified Troglitazone obtained in step (ii) in an organic polar and/or medium polar solvent and adding a non-polar solvent to the resulting solution.
- (iv) cooling the resulting solution rapidly to -5°C at a rate of 10°C/minute and maintaining the temperature at -5°C for a period of 10—16 h to produce the polymorphic Form-6 of Troglitazone.
- (v) isolating the polymorphic Form-6 of Troglitazone, by conventional methods which is characterized by the following data :

Differential Scanning Calorimeter : Endotherm at 105.4°C (onset at 94.8°C).

X-ray powder diffraction (2θ) : 5.36, 8.54, 10.24, 10.70, 11.24, 12.48, 12.68, 15.58, 18.84, 19.48, 19.74, 20.58, 21.38, 21.56, 22.18.

Infrared absorption bands (cm^{-1}) : 3634(w), 3514(w), 3176(w), 3060(w), 2930(w), 1753(m), 1686(s), 1610(w), 1512(s), 1459(w), 1418(w), 1380(w), 1335(m), 1300(m), 1253(s), 1164(s), 1106(w), 1087(w), 1058(w), 1048(w), 937(w), 828(m), 723(w), 673(w), 606(w), 568(w), 515(w);

w=weak, m=medium, s=strong

- (vi) melting the polymorphic Form-6 of Troglitazone obtained above, by heating
- (vii) cooling the melt to ambient temperature slowly at a rate of 0.1 to 1°C/minute, over a period in the range of 1-4 h to give a glossy transparent material and
- (viii) grinding the transparent flake to a fine powder to yield the polymorphic Form-4 of Troglitazone.

(Compl. Specn. 17 Pages;

Drgns. 26 Sheets)

Ind. Cl. : 32 F₂ (b)

183727

Int. Cl. : C 07 D 417/00.

PROCESS FOR THE PREPARATION OF NOVEL POLYMORPHIC FORM-3 OF TROGLITAZONE HAVING ENHANCED ANTI-DIABETIC ACTIVITY.

Applicant : DR. REDDY'S RESEARCH FOUNDATION, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 7-1-27, AMEERPET, HYDERABAD-500 016, ANDHRA PRADESH, INDIA.

Inventors :

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5. GADDAM OM REDDY.

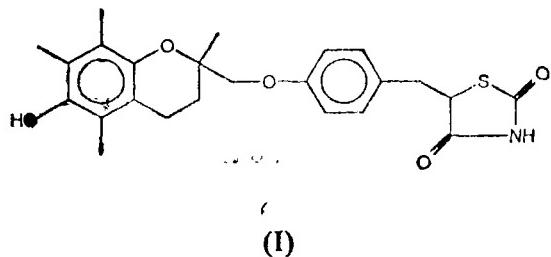
Application No. 2808/Mas/1997 filed on 09th December 1997.

Divisional to Patent Application No. 276/Mas/96; Ante dated to May 15, 1997.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

6 Claims

1. The process for the preparation of novel polymorphic Form-3 of Troglitazone having the formula I,



which is characterized by the following data :

Differential Scanning Calorimeter : Endotherm at 185.8°C (onset at 175.4°C)

(Fig. 2)

X-ray powder diffraction (2θ) : 5.44, 11.74, 13.24, 19.62, 16.02, 17.56, 18.12, 19.65, 21.41, 23.00, 23.31, 23.65, 24.43, 26.51.

Infrared absorption bands (cm⁻¹) : 3449(w), 3295(w), 2972(w), 2932(w), 1747(m), 1690(s), 1611(w), 1582(w), 1512(s), 1453(m), 1384(w), 1302(m), 1245(s), 1221(s), 1169(s), 1143(w), 1119(w), 1089(w), 1049(w), 931(w), 828(w), 722(w), 510(w);

w=weak, m=medium, s=strong

which comprises

- (i) synthesizing Troglitazone, in crude form employing known methods,
- (ii) subjecting the crude Troglitazone obtained in step (i) to column chromatography to obtain a partially purified Troglitazone having HPLC purity in the range of 60-80%;

(iii) dissolving the partially purified Troglitazone obtained in step (ii) in an organic polar and/or medium polar solvent and heating the resulting solution to reflux with a non-polar solvent,

(iv) scratching the resulting solution, while cooling rapidly to a temperature between 0 to -20°C at a rate of 2 to 10°C/minute over a period in the range of 10-30 min. to precipitate the polymorphic Form-2 of Troglitazone.

(v) isolating the precipitated polymorphic Form-2 of Troglitazone by conventional methods, which is characterized by the data described hereunder.

Differential Scanning Calorimeter : Endotherms at 110.1°C (onset at 102.4°C) and at 175.1°C (onset at 155.9°C).

X-ray powder diffraction (2θ) : 5.42, 10.24, 10.72, 11.58, 11.72, 15.60, 17.56, 18.16, 19.48, 19.58, 19.68, 21.44, 22.20, 23.28, 23.66, 24.14, 24.38.

Infrared absorption bands (cm⁻¹) : 3506(w), 3187(w), 3061(w), 2931(w), 1751(m), 1688(s), 1610(w), 1583(w), 1512(s), 1454(w), 1419(w), 1381(w), 1334(w), 1301(m), 1252(s), 1165(m), 1088(w), 1047(w), 932(w), 828(w), 722(w), 511(w).

(Fig. 17)

w=weak, m=medium, s=strong

(vi) dissolving the polymorphic Form-2 of Troglitazone obtained in step (v) in an organic polar and/or medium polar solvent and heating the resulting solution to reflux temperature of the solvent with a non-polar solvent on a steam bath,

(vii) cooling the solution slowly from the reaction mixture temperature to room temperature at a rate of 0.1 to 1°C/minute over a period in the range of 24-72 h to crystallize the polymorphic Form-3 of Troglitazone and

(viii) isolating the crystallized Form-3 of Troglitazone by conventional methods.

(Compl. Specn. 16 Pages;

Drgns. 26 Sheets)

Ind. Cl. : 32 F₂b

183728

Int. Cl. : C 07 D 417/00.

PROCESS FOR THE PREPARATION OF NOVEL POLYMORPHIC FORM-2 OF TROGLITAZONE HAVING ENHANCED ANTI-DIABETIC ACTIVITY.

Applicant : DR. REDDY'S RESEARCH FOUNDATION, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 7-1-27, AMEERPET, HYDERABAD-500 016, ANDHRA PRADESH, INDIA.

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5. GADDAM OM REDDY.

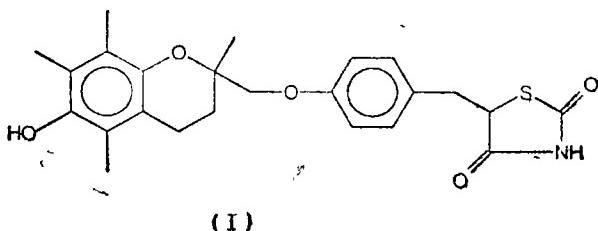
Application No. 2810/Mas/1997 filed on 9th December 1997.

Divisional to Patent Application No. 276/Mas/96; Ante dated to May 15, 1997.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

5 Claims

The process for the preparation of novel polymorphic Form-2 of Troglitazone having the formula I,



which is characterized by the data described hereunder :

Differential Scanning Calorimeter : Endotherms at 110.1°C (onset at 102.4°C) and at 175.1°C (onset at 155.9°C).

X-ray powder diffraction (20) : 5.42, 10.24, 10.72, 11.58, 11.72, 15.60, 17.56, 18.16, 19.48, 19.58, 19.68, 21.44, 22.20, 23.28, 23.66, 24.14, 24.38.

Infrared absorption bands (cm⁻¹) : 3506(w), 3187(w), 3061(w), 2931(w), 1751(m), 1688(s), 1610(w), 1583(w), 1512(s), 1454(w), 1419(w), 1381(w), 1334(w), 1301(m), 1252(s), 1165(m), 1088(w), 1047(w), 932(w), 828(w), 722(w), 511(w).

w=weak, m=medium, s=strong

which comprises

- (i) synthesizing Troglitazone, in crude form employing known methods.
- (ii) subjecting the crude Troglitazone obtained in step (i) to column chromatography to obtain a partially purified Troglitazone having HPLC purity in the range of 60—70%.
- (iii) dissolving the partially purified Troglitazone obtained in step (ii) in an organic polar and/or medium polar solvent and heating the resulting solution to reflux temperature of the solvent with a non polar solvent.
- (iv) scratching the resulting solution, while cooling rapidly to a temperature between 0 to -20°C at a rate of 2 to 10°C/minute over a period in the range of 10-30 min. to precipitate the polymorphic Form-2 of Troglitazone.
- (v) isolating the precipitated polymorphic Form-2 of Troglitazone by conventional methods.

(Compl. Specn. 16 Pages;

Drgns. 26 Sheets)

Ind. Cl. : 32 F2b

183729

Int. Cl. : C 07 D 417/00.

PROCESS FOR THE PREPARATION OF NOVEL POLYMORPHIC FORM-5 OF TROGLITAZONE HAVING ENHANCED ANTI-DIABETIC ACTIVITY.

Applicant : DR. REDDY'S RESEARCH FOUNDATION, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 7-1-27, AMEERPET, HYDERABAD-500 016, ANDHRA PRADESH, INDIA.

Inventors :

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2. CHEBIYYAM PRABHAKAR
3. DHARMARAJA SREENIVASRAO
4. MAMILLAPALLI RAMABHADRA SARMA
5. GADDAM OM REDDY.

Application No. 2811/Mas/1997 filed on 9th December 1997,

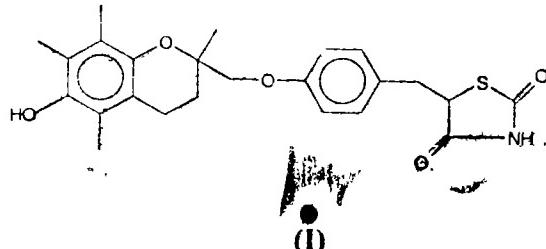
Divisional to Patent Application No. 276/Mas/96; Ante dated to May 15, 1997.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

6 Claims

We claim

The process for the preparation of novel polymorphic Form-5 of Troglitazone having the formula I,



which is characterized by the data described hereunder :

Differential Scanning Calorimeter : Endotherm at 180.5°C (onset at 157.9°C).

X-ray powder diffraction (20) : 5.60, 11.06, 11.62, 15.48, 15.78, 16.48, 18.12, 18.34, 21.06, 21.90, 23.34, 23.58.

Infrared absorption bands (cm⁻¹) : 3462(w), 3211(w), 3060(w), 2921(w), 1756(m), 1685(s), 1610(w), 1583(w), 1513(s), 1454(ms), 1419(w), 1381(w), 1303(m), 1244(s), 1168(m), 1117(w), 1085(w), 1047(m), 929(w), 861(w), 825(w), 718(w), 665(w), 564(w), 509(w).

w=weak, m=medium, s=strong

which comprises

- (i) synthesizing Troglitazone, in crude form employing known methods.
- (ii) subjecting the crude Troglitazone obtained in step (i) to column chromatography to obtain a partially purified Troglitazone having HPLC purity in the range of 60—70%.
- (iii) dissolving the partially purified Troglitazone obtained in step (ii) in an organic polar and/or medium polar solvent and heating the resulting solution to reflux temperature of the solvent with a non-polar solvent,
- (iv) scratching the resulting solution, while cooling rapidly to a temperature in the range of 0 to -20°C at a rate of 2 to 10°C/minute, over a period in the range of 10-30 min. to precipitate the polymorphic Form-2 of Troglitazone,
- (v) isolating the precipitated polymorphic Form-2 of Troglitazone, by conventional methods, which is characterized by the following data :

Differential Scanning Calorimeter : Endotherms at 110.1°C (onset at 102.4°C) and at 175.1°C (onset at 155.9°C).

X-ray powder diffraction (20) : 5.42, 10.24, 10.72, 11.58, 11.72, 15.60, 17.56, 18.16, 19.48, 19.58, 19.68, 21.44, 22.20, 23.28, 23.66, 24.14, 24.38.

Infrared absorption bands (cm⁻¹) : 3506(w), 3187(w), 3061(w), 2931(w), 1751(m), 1688(s), 1610(w), 1583(w), 1512(s), 1454(w), 1419(w), 1381(w), 1334(w), 1301(m), 1252(s), 1165(m), 1088(w), 1047(w), 932(w), 828(w), 722(w), 511(w).

w=weak, m=medium, s=strong,

- (vi) dissolving the polymorphic Form-2 of Troglitazone so obtained in step (v) in an organic polar and/or medium polar solvent and heating the resulting solution to reflux temperature of the solvent with a non-polar solvent,

- (vii) cooling the solution slowly to room temperature at a rate of 0.1 to 1°C/minute, over a period in the range of 24—72 h to crystallize the polymorphic

Form-3 of Troglitazone, which is characterized by the following data :

Differential Scanning Calorimeter : Endotherm at 185.8°C (onset at 175.4°C).

X-ray powder diffraction (20) : 5.44, 11.74, 13.24, 15.62, 16.02, 17.56, 18.12, 19.65, 21.41, 23.00, 23.31, 23.65, 24.43, 26.51.

Infrared absorption bands (cm⁻¹) : 3439(w), 3295(w), 2972(w), 2932(w), 1747(m), 1690(s), 1011(w), 1582(w), 1512(s), 1453(m), 1384(w), 1302(m), 1245(s), 1221(s), 1169(s), 1143(w), 1119(w), 1089(w), 1049(w), 931(w), 828(w), 722((w), (510w).

w=weak, m=medium, s=strong

(viii) filtering the product and melting it by heating,

(ix) cooling the melt to ambient temperature at a rate of 0.1 to 1°C/minute, over a period in the range of 1–4 h to give a glossy transparent material.

(x) grinding the transparent flake to a fine powder to yield the polymorphic Form-4 of Troglitazone, which is characterized by the following data : Differential Scanning Calorimeter : Endotherm at 56.6°C, exotherm at 110.4°C (onset at 93.6°C) and endotherm 177.1°C (onset at 153.7°C).

X-ray powder diffraction (20) : No diffraction peaks due to its amorphous nature.

Infrared absorption bands (cm⁻¹) : 3473(w), 3204(w), 3060(w), 2924(w), 1754(m), 1696(s), 1610(w), 1583(w), 1512(s), 1452(m), 1457(m), 1420(w), 1378(w), 1333(m), 1301(m), 1243(s), 1162(m), 1115(w), 1085(w), 1041(w), 928(w), 849(w), 827(w), 715(w), 664(w), 512(w) (Fig. 19).

w=weak, m=medium, s=strong.

(xi) subjecting the polymorphic Form-4 of Troglitazone obtained in step (x) to isothermal heating in the range of 60 to 170°C preferably at 130°C for a period in the range of 5 min. to 4 h, cooling to ambient temperature slowly at a rate of 0.1 to 1°C/minute, over a period in the range of 1–4 h, followed by grinding the flake to a fine powder to yield the polymorphic Form-5 of Troglitazone.

(Comp'l Specn. 19 Pages;

Drgs. 26 Sheets)

Ind. Cl. : 32 F.b.

183730

Int. Cl. : C 07 D 417/00.

PROCESS FOR THE PREPARATION OF NOVEL POLYMORPHIC FORM-4 OF TROGLITAZONE HAVING ENHANCED ANTI-DIABETIC ACTIVITY.

Applicant : DR. REDDY'S RESEARCH FOUNDATION, AN INDIAN COMPANY HAVING ITS REGISTERED OFFICE AT 7-1-27, AMEERPET, HYDERABAD-500 016, A.P., INDIA.

Inventors :

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5. GADDAM OM REDDY

Application No. : 2813/Mas/97 filed on 09th Dec. 97.

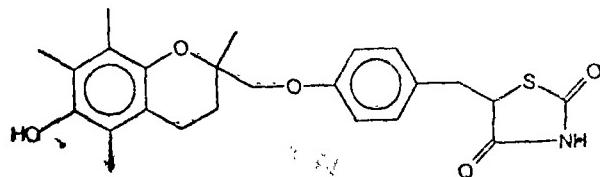
Divisional to Patent Application No. : 276/Mas/96; Antedated to May 15, 1997.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Chennai Branch.

6 Claims

We claim

1. The process for the preparation of novel polymorphic Form 4 of Troglitazone having the formula I,



(I)

which is characterized by the following data :

Differential Scanning Calorimeter : Endotherm at 56.6°C, exotherm at 110.4°C (onset at 93.6°C) and endotherm 177.1°C (onset at 153.7°C).

X-ray powder diffraction (20) : No diffraction peaks due to its amorphous nature.

Infrared absorption bands (cm⁻¹) : 3473(w), 3204(w), 3060(w), 2924(w), 1754(m), 1696(s), 1610(w), 1583(w), 1512(s), 1452(m), 1457(m), 1420(w), 1378(w), 1333(m), 1301(m), 1243(s), 1162(m), 1115(w), 1085(w), 1041(w), 928(w), 849(w), 827(w), 715(w), 664(w), 512(w).

w=weak, m=medium, s=strong.

which comprises

(i) synthesizing Troglitazone, in crude form employing known methods,

(ii) subjecting the crude Troglitazone obtained in step (i) to column chromatography to obtain a partially purified Troglitazone having HPLC purity in the range of 60—70%,

(iii) dissolving the partially purified Troglitazone obtained in step (ii) in an organic polar and/or medium polar solvent and heating the resulting solution to reflux with a non-polar solvent,

(iv) scratching while cooling rapidly to a temperature in the range of 0 to -20°C at a rate of 2 to 10°C/minute, over a period in the range of 10—30 min. to precipitate the polymorphic Form-2 of Troglitazone,

(v) isolating the precipitated polymorphic Form-2 of Troglitazone by conventional methods, which is characterized by the data described hereunder :

Differential Scanning Calorimeter : Endotherms at 110.1°C (onset at 102.4°C) and at 175.1°C (onset at 155.9°C).

X-ray powder diffraction (20) : 5.42, 10.24, 10.72, 11.58, 11.72, 15.60, 17.56, 18.16, 19.48, 19.58, 19.68, 21.44, 22.20, 23.28, 23.66, 24.14, 24.38.

Infrared absorption bands (cm⁻¹) : 3506(w), 3187(w), 3061(w), 2931(w), 1751(m), 1688(s), 1610(w), 1583(w), 1512(s), 1454(w), 1419(w), 1381(w), 1334(w), 1301(m), 1252(s), 1165(m), 1088(w), 1047(w), 932(w), 828(w), 722(w), 511(w).

w=weak, m=medium, s=strong.

(vi) melting the polymorphic Form-2 of Troglitazone obtained in step (v) above by heating,

(vii) cooling the melt to ambient temperature slowly at a rate of 0.1 to 1°C/minute over a period in the range of 1—4 h to give a glossy transparent material and

(viii) grinding the transparent flake to a fine powder to yield the polymorphic Form-4 of Troglitazone.

(Comp'l Specn. 17 pages;

Drgs. : 26 sheets)

AMENDMENTS UNDER SECTION 27 OF THE PATENTS ACT, 1970 IN RESPECT OF THE APPLICATION FOR PATENT NO. (610/Cal/94) (181867).

In pursuance of the Controller's power vested Under Section 27 of the Patents Act, 1970, the following amendments have been ordered to be made in the complete specification in respect of the application for Patent No. 181867 (610/Cal/94).

In the complete specification, pages viz. Nos. 4, 4A and 48 to 50 have been substituted by fresh pages viz. Nos. 4, 4A and 48 to 50 in respect of the application for Patent No. 181867 (610/Cal/94).

AMENDMENT PROCEEDINGS U/s. 57

The amendments proposed by GEC PLESSEY TELECOMMUNICATIONS LIMITED, ENGLAND in respect of Patent Application No. 279/Mas/89 (172258) as advertised in Part III Section II of the Gazette of India and no opposition being filed within the stipulated period. The said amendments have been allowed.

DESIGNS ACT, 1911
Section—63
DESIGN ASSIGNMENT

The following design stand in the name of Ravi Drolia has been assigned in the Register of Design in the name of Societe Bic S.A.

Design No., Class & Name

169764, 3—Societe Bic S.A., a Joint Stock Company of 8, Impasse Des Cailloux, 92110, Clichy, France.

The following Design Stand in the name of Rocklite Plastic Company Limited has been assigned in the register of Design in the name of Al Mustafa Overseas Pvt. Ltd.

Design No., Class & Name

172265, 3—Al Mustafa Overseas Pvt. Ltd., a company incorporated under the companies Act, 1956 having its office at B-11/2, Okhla, Industrial Area, Phase-II, New Delhi.

RENEWAL FEES PAID

169049 169752 171219 175631 178967 175867 176292 176571
176987 177432 178606 179128 181676 182137 182648 182653
181533 178270 181583 178915 181563 182179 179216 181358
178716 182564 177107 178647 182267 182348 182537 166538
182531 180256 178718 179238 178602 180886 177378 171806
172461 172514 172515 175878 176314 177000 182680 171547
171548 171545 171546 171655 174598 168233 171215 177386
177567 175195 178954 178649 172513 181011 166710 178316
178308 172055 175278 177472 175968

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173826 173856 173874 173917 173957 173959 173974

PATENT SEALED ON 25-02-2000

181791 182788*D 182931 182932* 182933 182935* 182936*
182937 182938*D 182939* 182940*D 182941* 182942
182941*D 182946 D 182947*D 182948*D 182949*F

182950*F 182951 182952 182953 182954 182955 182957
182958 182959 182961 182962*F 182964 182965 182966
182967*D 182968*D 182969*D 182970*D

CAL—17, DEL—NIL, MUM—18, CHEN—01

Patent shall be deemed to be endorsed with words LICENCE OF RIGHT Under Section 87 of the Patents Act, 1970 from the date of expiration of three years from the date of sealing.

D—Drug Patents.

F—Food Patents.

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entries is the date of registration included in the entries.

Class 1. No. 180064, Mr. Satish Agarwal & Mr. Mukesh Agarwal, Indian nationals, partners of M/s. Electric Component Industries, an Indian partnership firm and the address of the partners are 75, Bapu Park, Kotla Mubarakpur, New Delhi-110003, INDIA, "POWER STRIP", 6th August 1999.

Class 3. No. 180042, Reynolds, a societe anonyme organised under the laws of France of Chemin des Huguenots, 26000 Valence, France, "TRANSPARENT BALL POINT PEN", 2nd August 1999.

Class 3. No. 180527, Sony Computer Entertainment, Inc., of 1-1, Akasaka 7-chome, Minato ku, Tokyo, Japan, "SUPPORTING BASE", 7th October 1999.

Class 3. No. 180817, Philips & Yaming Luminaire Co. Ltd., of No. 165, Peng Feng Road, Malu, Jiading 201801, Shanghai, China, "FLOODLIGHT LUMINAIRE", 26th August 1999.

Class 3. No. 180818, Koninklijke Philips Electronics N.V., a company organized and existing under the laws of the Kingdom of the Netherlands at Greenwoudseweg 1, 5621 BA Eindhoven, The Netherlands, "TOASTER OVEN", 26th August 1999 (Reciprocity date).

Class 3. No. 180055, Anand Madhusudan Mathuria Indian national of 304 & 305, Mathuria Apartment, 49, Sir. M. V. Road, Andheri (East), Mumbai-400069, State of Maharashtra, India, of above address, "DISPENSER", 5th August 1999.

Class 1. No. 180056, M/s. Subtronics (India) Private Limited, a company registered under the Indian Companies Act, 1956 having its registered office at Kaliandas Udyog Bhavan, Unit No. 147, Near Century Bazar, Mumbai-400025, Maharashtra, India, "HYDROGEN GAS MONITOR", 5th August 1999.

Class 3. No. 180213, PLM AB, of Djaknogatan 16, 201 80 Malmo, Sweden, a Swedish company, "CONTAINER FOR INFUSION AND OTHER LIQUIDS", 19th August 1999.

T. K. CHATTOPADHYAY

Deputy Controller of Patents & Designs

प्रधानमंत्री, भारत सरकार मदणालय, कर्मसाधारण दवारा मिलित

प्रधान प्रकाशन नियंत्रक, दिल्ली दवारा प्रकाशित, 2000

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